

VisionPro[®] Trevista Cylinder Installation Guide



PLACEHOLDER
IMAGE

2023 September 12
Revision: 9.20.0.58

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Precautions

To reduce the risk of injury or equipment damage, observe the following precautions when you install the Cognex product:

- Trevista Controller requires power supply connection from a supply network that meets the following requirements:
100-240 V AC +/- 1-%, 50-60 Hz, 550 VA
- This product is intended for industrial use in automated manufacturing or similar applications.
- The safety of any system incorporating this product is the responsibility of the assembler of the system.
- Do not install Cognex products where they are exposed to environmental hazards such as excessive heat, dust, moisture, humidity, impact, vibration, corrosive substances, flammable substances, or static electricity.
- Route cables and wires away from high-current wiring or high-voltage power sources to reduce the risk of damage or malfunction from the following causes: over-voltage, line noise, electrostatic discharge (ESD), power surges, or other irregularities in the power supply.
- Do not expose the image sensor to laser light. Image sensors can be damaged by direct, or reflected, laser light. If your application requires laser light that might strike the image sensor, use a lens filter at the corresponding laser wavelength. For suggestions, contact your local integrator or application engineer.
- This product does not contain user-serviceable parts. Do not make electrical or mechanical modifications to product components. Unauthorized modifications can void your warranty.
- Changes or modifications not expressly approved by the party responsible for regulatory compliance could void the user's authority to operate the equipment.
- Include service loops with cable connections.
- Ensure that the cable bend radius begins at least six inches from the connector. Cable shielding can be degraded or cables can be damaged or wear out faster if a service loop or bend radius is tighter than 10X the cable diameter.
- This device should be used in accordance with the instructions in this manual.
- All specifications are for reference purposes only and can change without notice.

Symbols

The following symbols indicate safety precautions and supplemental information:

 **WARNING:** This symbol indicates a hazard that could cause death, serious personal injury or electrical shock.

 **CAUTION:** This symbol indicates a hazard that could result in property damage.

 **Note:** This symbol indicates additional information about a subject.

 **Tip:** This symbol indicates suggestions and shortcuts that might not otherwise be apparent.

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Getting Started

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About the VisionPro Trevista Dome Series

The VisionPro Trevista Dome series vision systems are high-performance vision systems that offer:

- Feature 1
- Feature 2
- Feature 3

Supporting Documentation

This document provides basic information about the VisionPro Trevista Dome series vision systems. Additional information is available through the Windows **Start** menu or the VisionPro **Help** menu after you install the VisionPro software on your PC.


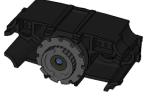
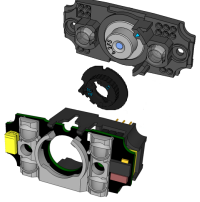
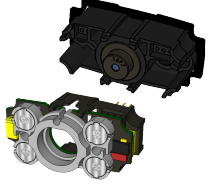

Note: For the latest documentation, visit: support.cognex.com/documentation/dataman.

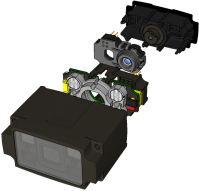


- The ***VisionPro Communications and Programming Guide*** shows you how to integrate your VisionPro vision system into your particular automation and factory environment.
Cognex > VisionPro Software v x.x.x > Documentation > Communications > DataMan Communications and Programming Guide
- The ***VisionPro Industrial Protocols Manual*** provides information on how to integrate DataMan vision systems into your particular environment using industrial protocols.
Cognex > VisionPro Software v x.x.x > Documentation > Communications > DataMan Industrial Protocols Manual
- The ***VisionPro Reader Configuration Codes*** document provides printable 2-D codes that you can use to configure the VisionPro vision system.
Cognex > VisionPro Software v x.x.x > Documentation > English > Reader Configuration Codes
- The ***DMTrevista Dome Quick Reference Guide*** provides essential information about the DMTrevista Dome reader.
Cognex > VisionPro Software v x.x.x > Documentation > English > DMTrevista Dome Series > DMTrevista Dome Quick Reference Guide
- The ***VisionPro Fixed-Mount Readers Reference*** is a complete online hardware reference for the VisionPro fixed-mount ID vision systems.
Cognex > VisionPro Software v x.x.x > Documentation > English > DMTrevista Dome > Fixed-Mount Reference Manual
- The ***VisionPro Questions and Answers*** document provides context-sensitive information. You can view this help inside the VisionPro Setup Tool or as a stand-alone help file.
Cognex > VisionPro Software v x.x.x > Documentation > DMTrevista Dome > Questions and Answers
- The ***DataMan Control Commands*** lists DataMan Control Commands with all relevant information. You can view this help inside the Setup Tool or as a stand-alone help file.
Cognex > VisionPro Software v x.x.x > Documentation > English > VisionPro Control Commands
- The ***Setup Tool Reference Manual*** describes the user interface of the VisionPro Setup Tool software.
Cognex > VisionPro Software v x.x.x > Documentation > English > Setup Tool Reference Manual
- The ***Release Notes*** list detailed system requirements and additional information about the VisionPro software release.
Cognex > VisionPro Software v x.x.x > Documentation > VisionPro v x.x.x Release Notes

Accessories








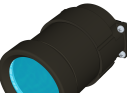
You can purchase the following components separately. For a list of options and accessories, contact your local Cognex sales representative.

Lenses



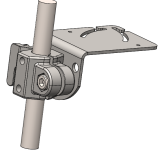


Accessory	Product Number	Illustration
6.2 mm lens kit that includes: <ul style="list-style-type: none"> • 6.2 mm optics mount • 6.2 mm lens • Manual lens cap (assembled) • Screws 	DM150-LENS-62	
16 mm lens kit with extended optics mount (requires the use of an extended front cover and high-powered red LED). The kit includes: <ul style="list-style-type: none"> • 16 mm optics mount • 16 mm lens • Manual lens cap (assembled) • Screws 	DM260-LENS-16	
IR 6.2 mm lens kit, 3-position with IR LED includes: <ul style="list-style-type: none"> • 6.2 mm optics mount • 6.2 mm lens (IR) • Standard Infrared Light for 6.2mm (Risk Group Exempt acc. IEC62471) • Manual lens cap (not assembled) • Screws 	DMA-KIT-IR-62	
IR 16 mm lens kit that includes: <ul style="list-style-type: none"> • 16 mm optics mount • 16 mm lens (IR) • Standard Infrared Light for 16mm (Risk Group Exempt acc. IEC62471) • Manual lens cap (assembled) • Screws 	DMA-KIT-IR-16	
Liquid Lens Module (LLM) to be used with 6.2 mm lens or 16 mm lens	DMA-LLM-150-260	

Accessory	Product Number	Illustration
16 mm lens with ImageMax kit that includes: <ul style="list-style-type: none"> • 16 mm optics mount • 16 mm lens • Liquid Lens Module (DMA-LLM-150-260) • High Powered red LED illumination (DM260-LED-RED-HP) (Risk Group Exempt acc. IEC62471) • 2-LED half-polarized extended cover (DM260-LENS-16CVR-P) (Risk Group Exempt acc. IEC62471) 	DM260-KIT-16LL	
Blue bandpass filter	CKR-BP470	
Red bandpass filter	CKR-BP635	

Lens Covers and Internal Illumination






Accessory	Product Number	Illustration
Red LED Light for 6.2 mm Lens	DM150-LED-RED	
White LED Light for 6.2 mm Lens	DM150-LED-WHT	
Blue LED Light for 6.2 mm Lens	DM150-LED-BLU	
High-Powered Red LED Light for 16 mm Lens	DM260-LED-RED-HP	
Clear lens cover. Use with a 6.2 mm lens only.	DM150-CVR-CLR	
Clear lens cover, ESD safe. Use with a 6.2 mm lens only.	DM150-CVR-ESD	
Polarized front cover. Use with a 6.2 mm lens only.	DM260-LENS-62CVR-F	
Extended lens cover, un-polarized. Use with a 16 mm lens only. For maximum light power 24VDC supply is recommended.	DM260-LENS-16CVR	
Extended lens cover, half-polarized. Use with a 16 mm lens only. For maximum light power 24VDC supply is recommended.	DM260-LENS-16CVR-P	
Extended lens cover, fully polarized. Use with a 16 mm lens only. For maximum light power 24VDC supply is recommended.	DM260-LENS-16CVR-F	
C-mount adapter, IP40	DM260-CMNT-00	
C-mount adapter, IP65	DM260-CMNT-CVR	

Mounting Brackets



Accessory	Product Number	Illustration
Universal mounting bracket	DM100-UBRK-000	
Pivot mounting bracket	DM100-PIVOTM-00	
Logistics mounting bracket	DMA-BKT-LGS	
Adjustable mirror bracket	DMA-262-MIR	
DataMan 360 adapter kit	DM-ADAP-PLT	

Cables

Note: Cables are sold separately.

Accessory	Product Number	Illustration
Ethernet Cable, X-coded M12-8 to RJ-45	CCB-84901-2001-xx (straight, xx specifies length: 2m, 5m, 10m, 15m, 30m)	
Ethernet Cable, X-coded M12-8 to RJ-45	CCB-84901-2002-xx (right-angled, xx specifies length: 2m, 5m, 10m)	
Ethernet Cable, Robotic X-Coded M12-8 to RJ-45	CCB-84901-2RBT-xx (straight, xx specifies length: 2m, 5m, 10m)	
X-Coded to A-Coded Ethernet cable adapter, 0.5 m	CCB-M12X8MS-XCAC	
Power and I/O Breakout Cable, M12-12 to Flying Lead	CCB-M12x12Fy-xx (y = straight/angled, xx specifies length)	
Power and I/O Breakout Cable, M12-12 to Flying Lead	CCBL-05-01	
Power and I/O Breakout Cable, M12-12 to Flying Lead	CCB-PWRIO- xx (straight, xx specifies length: 5m, 10m, 15m)	
Power and I/O Breakout Cable, M12-12 to Flying Lead	CCB-PWRIO-xxR (right-angled, xx specifies length: 5m, 10m, 15m)	
I/O Module Cable M12-12 to DB15	CCB-PWRIO-MOD-xx (xx specifies length: 2m, 5m)	
RS-232 Connection Cable	CCB-M12xDB9Y-05	

External Lights

Accessory	Product Number	Illustration
Ring light	CLRR-R7030G1CLR	
Back light	CLRB-F100100G1	

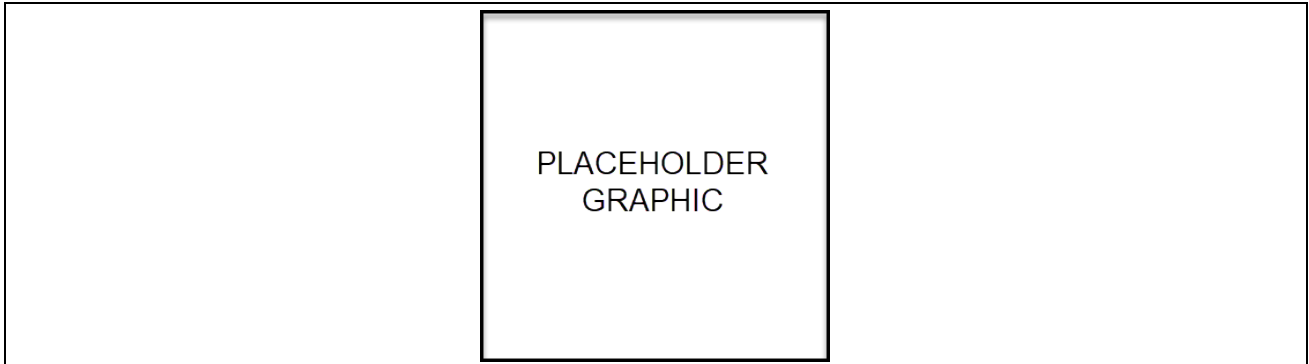
Accessory	Product Number	Illustration
Coaxial Dual on Access Light (DOAL)	CLRO-K5050G1	
Spot light	CLRS-P14G1	
Dark-field light	CLRD-D120G1	
Brick light, narrow blue	IVSL-ODDM-S75-470	
Brick light, narrow red	IVSL-ODDM-S75-625	
Bar light, wide red	IVSL-YLW2X-625	
Bar light, narrow red, linear polarizer	IVSL-YLW2X-625P	
Bar light, narrow infrared	IVSL-YLW2X-850	
Bar light, narrow blue	IVSL-YLW300-470	
Bar light, wide blue	IVSL-YLW300-470 W	
Bar light, narrow red	IVSL-YLW300-625	
Bar light, wide red	IVSL-YLW300-625 W	
Bar light, narrow white	IVSL-YLW300-WHI	
Bar light, wide white	IVSL-YLW300-WHI W	
Bar light, blue	IVSL-LX520-470	
Bar light, red	IVSL-LX520-625	
LX280-series light, blue	IVSL-LX280-470	
LX280-series light, red	IVSL-LX280-625	
Bar light, red	IVSL-LX800-625	

Setting Up Your VisionPro Vision System

Read this section to learn how the vision system connects to its standard components and accessories.

Reader Layout

Delete this text and replace it with your own content.



Number	Description
1	
2	
3	
4	

Dimensions

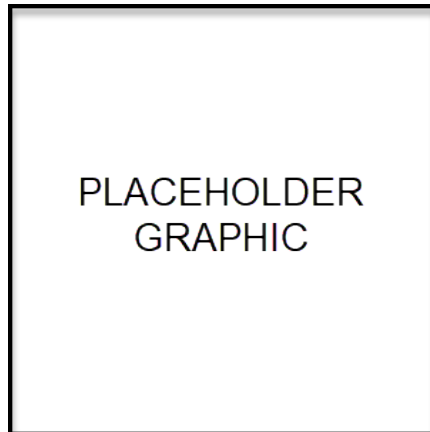
The following sections list dimensions of the vision system.

VisionPro Trevista Dome

Note:

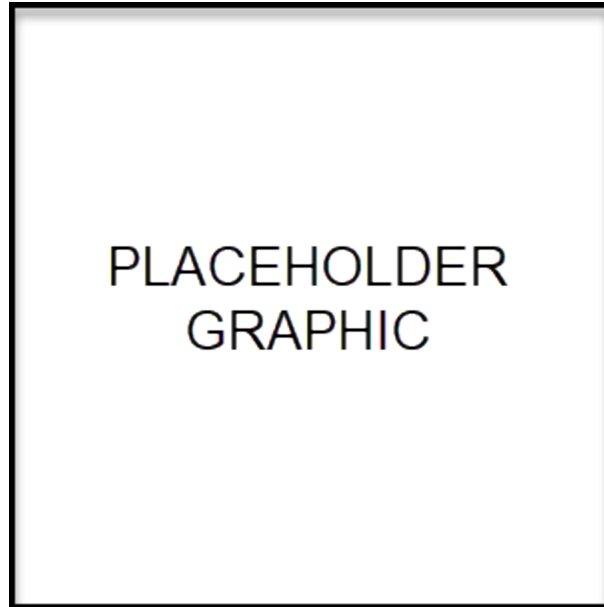


- Dimensions are in millimeters [inches] and are for reference purposes only.
- All specifications are for reference purposes only and can change without notice.

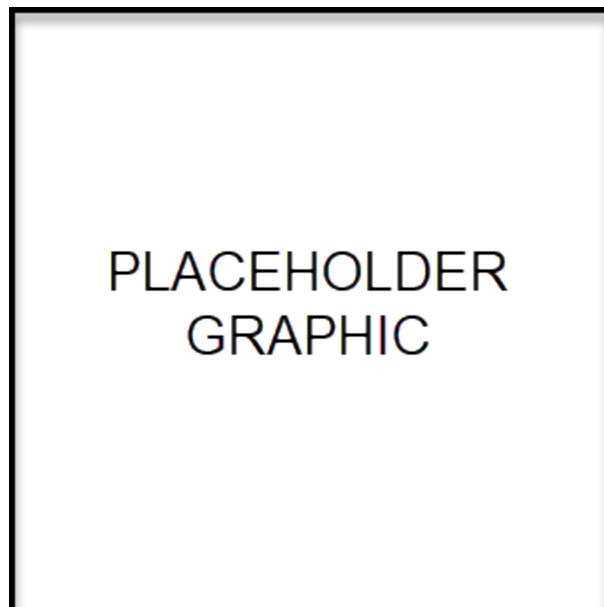


Installing a C-Mount Lens

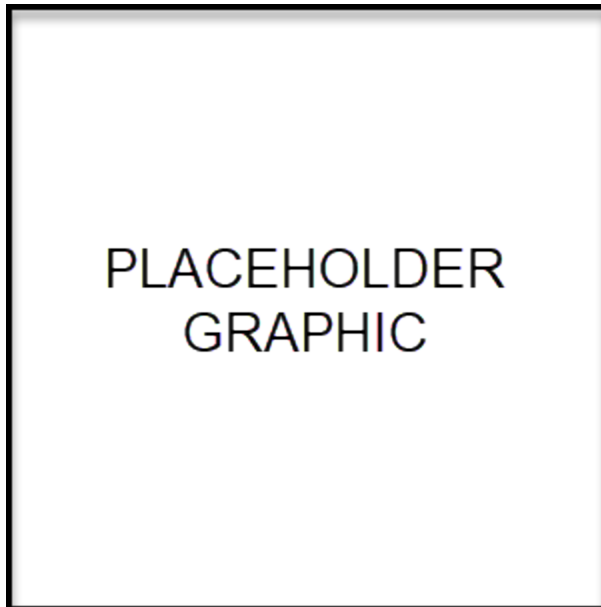
1. Remove the adhesive protective film.



2. Thread the lens into the vision system.



3. Place the vision system at the desired working distance from focus target.
 - a. Connect the vision system to the VisionPro.
 - b. Navigate to the Optimize Image pane.
 - c. On the Basic tab, click the **triangle** on the Live button to access the drop-down list and check the **Focus Feedback** option.
 - d. Use the VisionPro Focus Target template, available through the Windows Start menu or the VisionPro **Help** menu, to align the edge of the reader body to the line marked with the target distance used in your application.
 - e. Adjust focus for maximum sharpness. Enhance image quality in the VisionPro for better guidance.



4. Attach the front cover.

Reading Distance and Field of View

The FoV values are shown as follows:

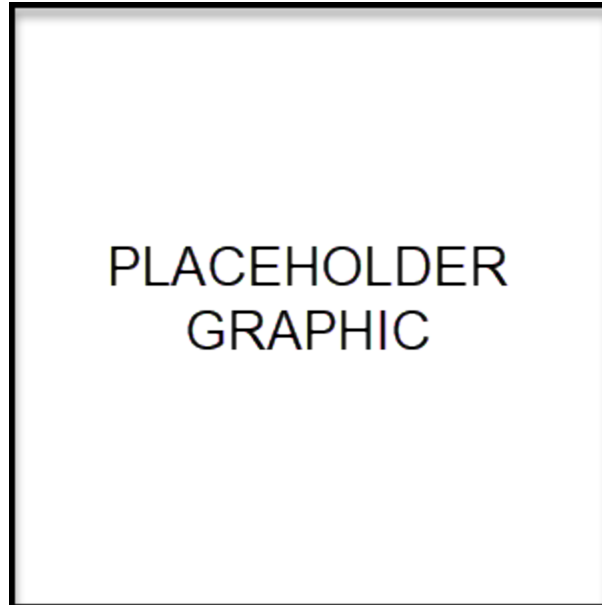
<div style="border: 1px solid black; width: 200px; height: 150px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <p>PLACEHOLDER GRAPHIC</p> </div>			
Distances in mm / 1D min code		Distances in mm / 2D min code	

Mounting the Reader

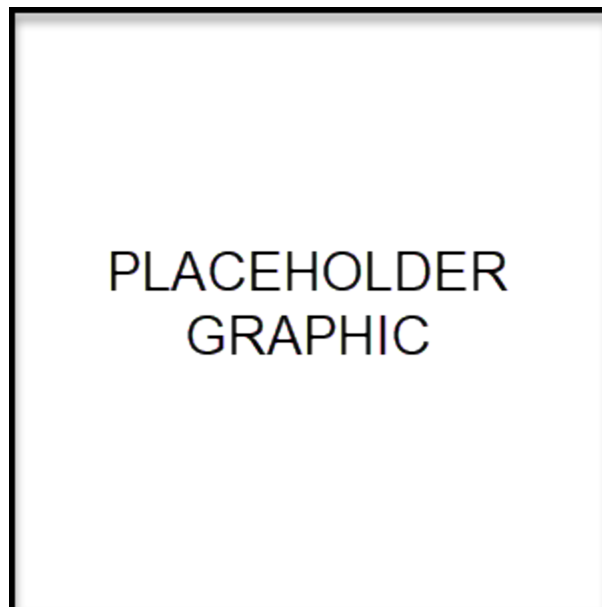
The vision system provides mounting holes for attachment to a mounting surface.

CAUTION: The vision system should be grounded, either by mounting the vision system to a fixture that is electrically grounded or by attaching a wire from the vision system's mounting fixture to frame ground or Earth ground. If a ground wire is used, it should be attached to one of the four mounting points on the back plate of the vision system and not to the mounting points on the front of the vision system.

1. Align the holes on the mounting surface with the mounting holes on the vision system.



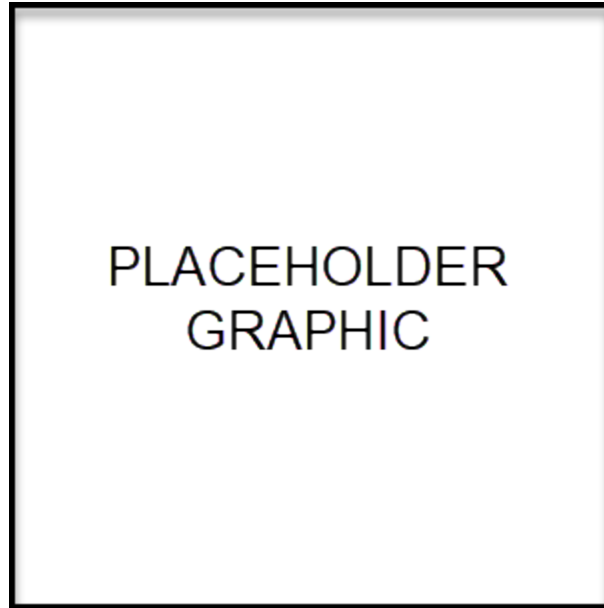
2. Insert the **TBD** screws into the mounting holes.



Connecting the Ethernet Cable

CAUTION: The Ethernet cable shield must be grounded at the far end. Whatever this cable is plugged into (typically a switch or router) should have a grounded Ethernet connector. A digital voltmeter should be used to validate the grounding. If the far end device is not grounded, a ground wire should be added in compliance with local electrical codes.

1. Connect the Ethernet cable's M12 connector to the vision system ENET connector.
2. Connect the Ethernet cable's RJ-45 connector to a switch/router or PC, as applicable.



Connecting the Power and I/O Breakout Cable

⚠ CAUTION: To reduce emissions, connect the far end of the Breakout cable shield to frame ground.

Note:

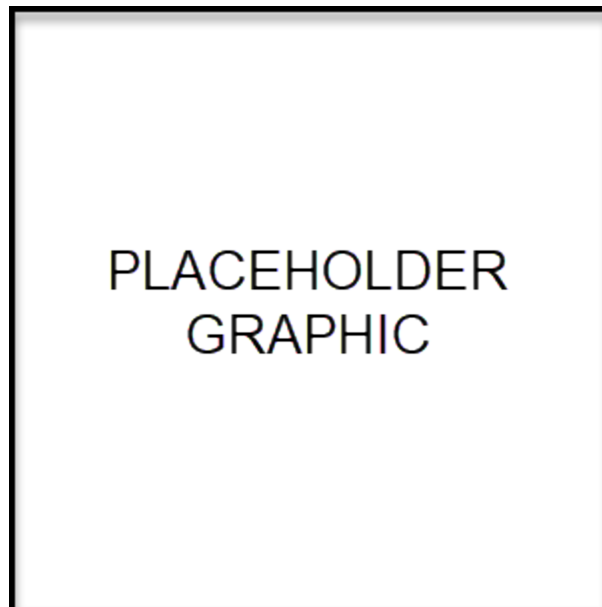


- Perform wiring or adjustments to I/O devices when the vision system is not receiving power.
- You can clip unused wires short or use a tie made of non-conductive material to tie them back. Keep bare wires separated from the +24 V DC wire.

1. Verify that the 24 V DC power supply is unplugged and not receiving power.
2. Attach the +24 V DC connector of the Power and I/O Breakout cable and Ground wires to the corresponding terminals on the power supply. For more information, see [Specifications on page 28](#).

⚠ CAUTION: Never connect voltages other than 24 V DC. Always observe the polarity shown.

3. Attach the M12 connector of the Power and I/O Breakout Cable to the 24 V DC connector of the vision system.
4. Restore power to the 24 V DC power supply and turn it on if necessary.



Using Your VisionPro Vision System

This section provides information on the installation of the VisionPro, troubleshooting connection issues, tuning, image filtering, as well as vision system training and package detection.

Installing the VisionPro

Follow the steps below to install and connect your vision system to the VisionPro.

1. Check the VisionPro **Release Notes** for a full list of system requirements.
2. Download the latest version of the VisionPro from support.cognex.com/downloads/dataman/software-firmware and follow the on-screen steps.
3. Connect the Trevista Dome series vision system to your PC.
4. Launch the VisionPro and click **Refresh**. Detected devices appear under **COM ports** or **Network devices**, or both.
5. Select a vision system from the list and click **Connect**.

Trigger Types

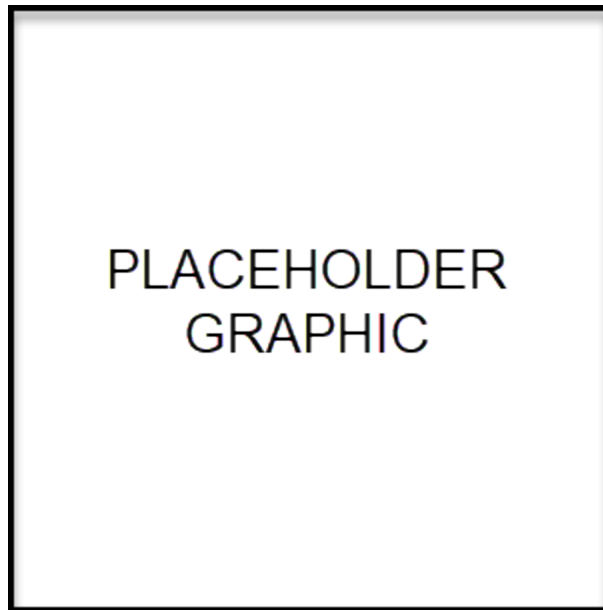
The VisionPro Trevista Dome vision systems support the following trigger modes:

- **Self:** At an interval you configure, the vision system automatically detects and decodes codes in its field of view. If you set a higher re-read delay than the trigger interval, there is a code output only once until the code is out of the field of view for the duration of the re-read delay.
- **Single (external trigger):** Acquires a single image and attempts to decode any symbol it contains, or more than one symbol in cases where multicode is enabled. The vision system relies on an external trigger source.
- **Presentation:** Scans, decodes and reports a single code in the field of view. The vision system relies on an internal timing mechanism to acquire images.
- **Manual:** Begins acquiring images when you press the trigger button on the vision system, and continues acquiring images until a symbol is found and decoded or you release the button.
- **Burst:** Performs multiple image acquisitions based on an external trigger and decodes any symbol appearing in a single image or within a sequence of images, or multiple symbols in a single image or within a sequence of images when multicode is enabled. You can control the number of images within each burst and the interval between image acquisitions.
- **Continuous:** Begins acquiring images based on a single external trigger and continues to acquire and decode images until a symbol is found and decoded, or until multiple images containing as many codes as specified in multicode mode are located, or until the trigger is released. You can configure your vision system to acquire images based on the start and stop signal from separate digital IO pulses.

External Triggers

If you are using external triggering, you can use any of the following methods to trigger your vision system.

- Press the trigger button on the vision system.



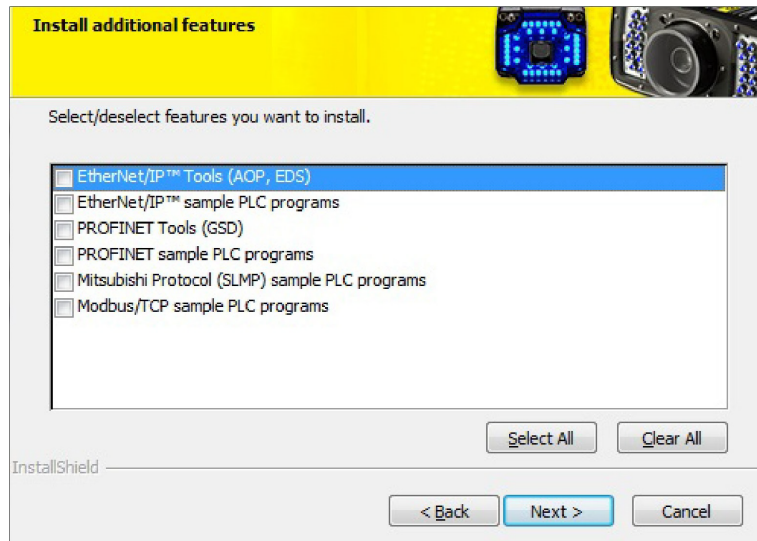
- Send a pulse on the I/O cable.
 - Trigger + (orange or red wire)
 - Trigger - (black wire)
- Send a serial trigger command over the RS-232 connection.
- Press **CTRL+T** on the keyboard while the VisionPro has the input focus.
- Click the **Trigger** button in the VisionPro.

Industrial Protocols

The vision system supports the following industrial protocols:

- EtherNet/IP™
- PROFINET
- SLMP Protocol
- Modbus TCP

Select industrial protocol samples and tools you want to use when you install the VisionPro.



There are three ways to enable or disable industrial protocols. Once enabled, a reboot is required for the changes to take effect.

- Enable the protocols using the **Industrial Protocols** pane of the VisionPro, under **Communications**.
- Scan the appropriate **Reader Configuration codes**. For more information, see *Reader Configuration Codes* available through the Windows **Start** menu, the VisionPro **Help** menu, or DataMan documentation available on the [Cognex support site](#).
- Send the appropriate **DMCC** command. For more information, see *Command Reference* available through the Windows **Start** menu or the VisionPro **Help** menu.

For more information on using the industrial protocols, see the *DataMan Industrial Protocols Manual* available through the Windows **Start** menu, the VisionPro **Help** menu, or DataMan documentation available on the [Cognex support site](#).

Specifications

The following sections list general specifications for the vision system.

VisionPro Trevista Dome Series Vision System

Specification	Model
Weight	TBD
Power	TBD
Power Consumption	TBD
Light Connector	Output Voltage: TBD
	Max Avg Current: TBD
	Peak Operating Current: TBD
	Max Inrush Current: TBD
Case Temperature	TBD
Operating Temperature	TBD
Storage Temperature	TBD
Humidity	TBD
Environmental	TBD
Shock (Shipping and Storage)	TBD
Vibration (Shipping and Storage)	TBD
RS-232	RxD, TxD according to TIA/EIA-232-F
Codes	TBD
High-Speed Outputs	I _{MAX} : TBD
	R _{MIN} : TBD
Trigger	V _{IH} : TBD
Inputs	V _{IL} : TBD
	I _{TYP} : TBD
Ethernet	10/100/1000. Full duplex or half duplex.

VisionPro Trevista Dome Series Vision System Image Sensor

Specification	Model
Image Sensor	TBD
Image Sensor Properties	TBD
Image Resolution (pixels)	TBD
Electronic Shutter Speed	TBD
Image Acquisition at Full Resolution	TBD
Lens Type	TBD

LED and Laser Wavelengths

The following table shows LED types and the related peak wavelengths.

LED	λ [nm]
White	TBD (Color Temperature)
Blue	TBD
Red	TBD
High-Power Red	TBD
IR	TBD
Torchlight - White	TBD (Color Temperature)
Torchlight - Red	TBD

Acquisition Trigger Input

The vision system features one acquisition trigger input, which is optically isolated. You can configure the acquisition trigger input to trigger from an NPN (current sinking) or PNP (current sourcing) device.

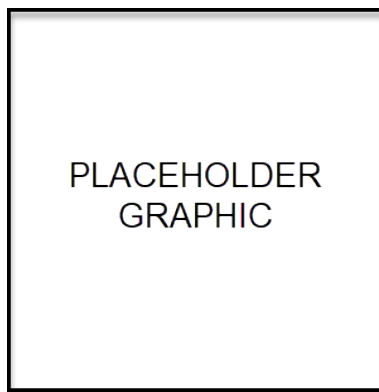
- To trigger from an NPN type photoelectric sensor or PLC output, connect COMMON IN to +24 VDC and connect IN 0 to the output of the photoelectric sensor. When the output turns ON, it pulls TRIGGER down to 0 VDC, turning the opto-coupler ON.
- To trigger from a PNP photoelectric sensor or PLC output, connect IN 0 to the output of the photoelectric sensor and connect COMMON IN to 0 VDC. When the output turns ON, it pulls TRIGGER up to +24 VDC, turning the opto-coupler ON.

PLACEHOLDER
GRAPHIC

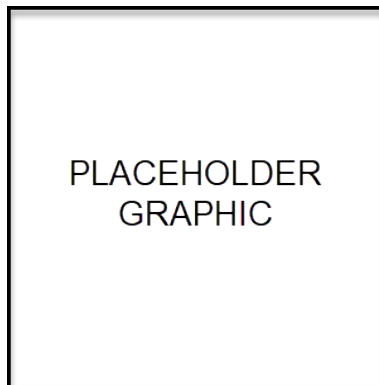
High-Speed Outputs

Specification	Description
Voltage	TBD VDC maximum through external load
Current	TBD mA maximum sink or source current
	OFF state leakage current TBD μ A
	External load resistance TBD Ohms to TBD Ohms
	Each line rated at a maximum TBD mA, protected against over-current, short circuits and transients from switching inductive loads. High current inductive loads require an external protection diode.

For NPN lines, the external load should be connected between the output and the positive supply voltage (< TBD VDC). The output pulls down to less than TBD VDC when ON, which causes current to flow through the load. When the output is OFF, no current flows through the load.

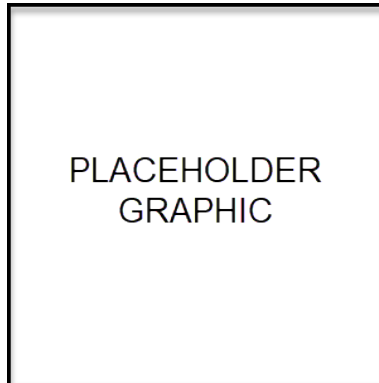


For PNP lines, the external load should be connected between the output and the negative supply voltage (TBD VDC). When connected to a 24 VDC power supply, the output pulls up greater than TBD VDC when ON, and current flows through the load. When the output is OFF, no current flows through the load.

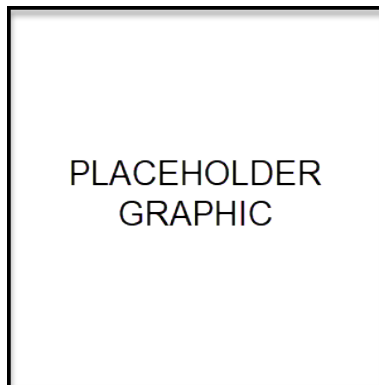


High Speed Output Wiring

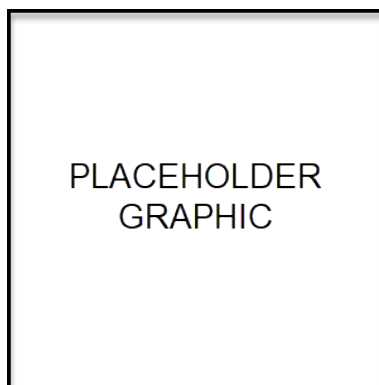
To connect to an NPN-compatible PLC input, connect one of the vision system's high-speed outputs directly to the PLC input. When enabled, the output pulls the PLC input down to less than **TBD** VDC.



To connect to a PNP-compatible PLC input, connect one of the vision system's high-speed outputs directly to the PLC input. When enabled, the output pulls the PLC input up to greater than **TBD** VDC.

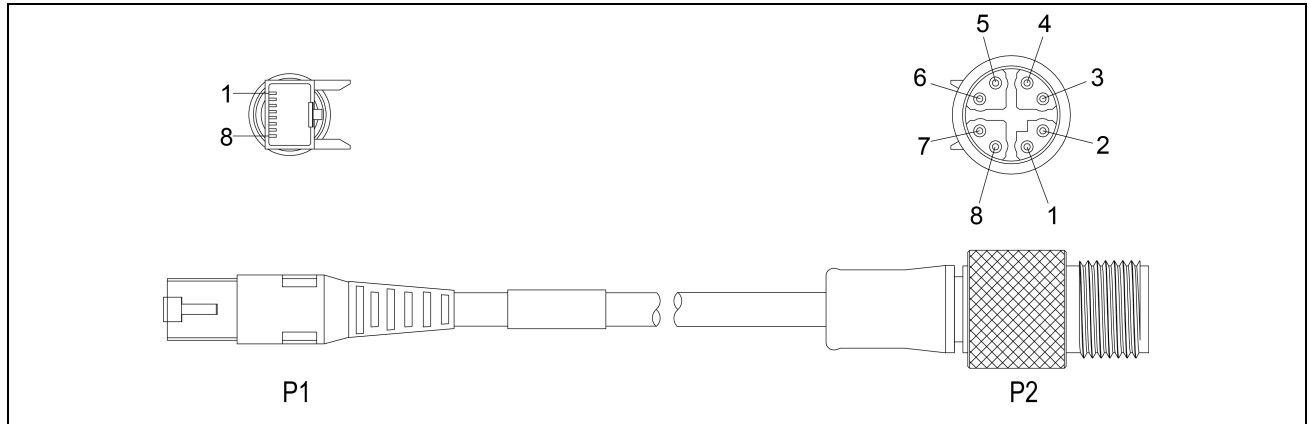


To connect the high-speed outputs to a relay, LED or similar load, connect the negative side of the load to the output and the positive side to +24VDC. When the output switches on, the negative side of the load is pulled down to less than **TBD** VDC, and 24 VDC appears across the load. Use a protection diode for a large inductive load, with the anode connected to the output and the cathode connected to +24 VDC.



Ethernet Cable

The Ethernet cable provides Ethernet connectivity to the vision system. The Ethernet cable is used to connect the vision system to other network devices.



P1 Pin Number	Wire Color	Signal Name	P2 Pin Number
1	White/Orange	TxRx A +	1
2	Orange	TxRx A -	2
3	White/Green	TxRx B +	3
4	Blue	TxRx C +	8
5	White/Blue	TxRx C -	7
6	Green	TxRx B -	4
7	White/Brown	TxRx D +	5
8	Brown	TxRx D -	6

CAUTION: The Ethernet cable shield must be grounded at the far end. Whatever this cable is plugged into (typically a switch or router) should have a grounded Ethernet connector. A digital voltmeter should be used to validate the grounding. If the far end device is not grounded, a ground wire should be added in compliance with local electrical codes.

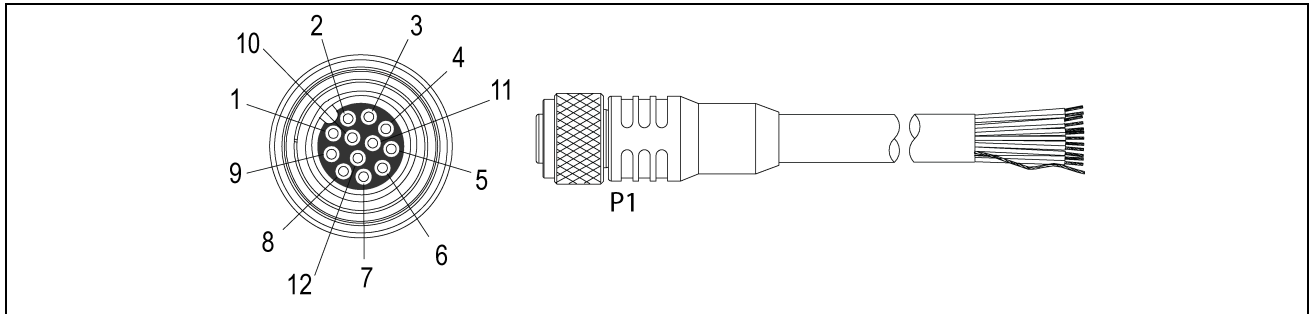
Note:

- Cables are sold separately.
- The wiring for this cable follows standard industrial Ethernet M12 specifications. It differs from the 568B standard.

Power and I/O Breakout Cable (CCB-M12x12Fy-xx)

The Power and I/O Breakout cable provides access to trigger and high-speed outputs. For RS-232, use the Power Supply return path for ground.

The figure on the left shows the plug on the device.



Pin#	Signal Names	Wire Color
1	Out 2/In 2	White
2	TxD	Green
3	RxD	Pink
4	Out 3/In 3	Yellow
5	In 1	Grey
6	Common In	Black
7	+24 VDC	Brown
8	GND	Blue
9	Common Out	Purple
10	In 0	Red
11	Out 0	Grey/Pink
12	Out 1	Red/Blue

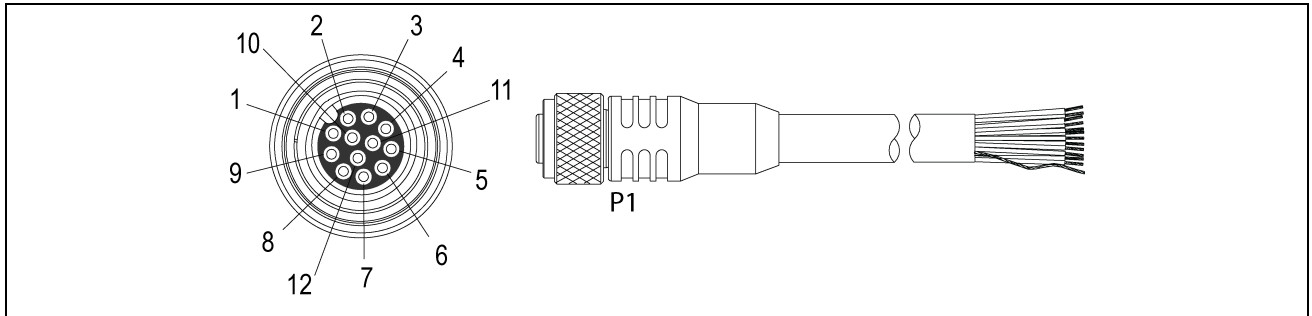
Note:

- Cables are sold separately.
- Perform wiring or adjustments to I/O devices when the vision system is not receiving power.
- You can cut exposed wires short or trim wire ends. You also can tie the wires back if you use a tie made of non-conductive material. Keep bare wires separated from the +24 V DC wire.

Power and I/O Breakout Cable (CCBL-05-01)

The Power and I/O Breakout cable provides access to trigger and high-speed outputs. For RS-232, use the Power Supply return path for ground.

The figure on the left shows the plug on the device.



Pin#	Signal Names	Wire Color
1	Out 2/In 2	Yellow
2	TxD	White/Yellow
3	RxD	Brown
4	Out 3/In 3	White/Brown
5	In 1	Violet
6	Common In	White/Violet
7	+24 VDC	Red
8	GND	Black
9	Common Out	Green
10	In 0	Orange
11	Out 0	Blue
12	Out 1	Grey

Note:

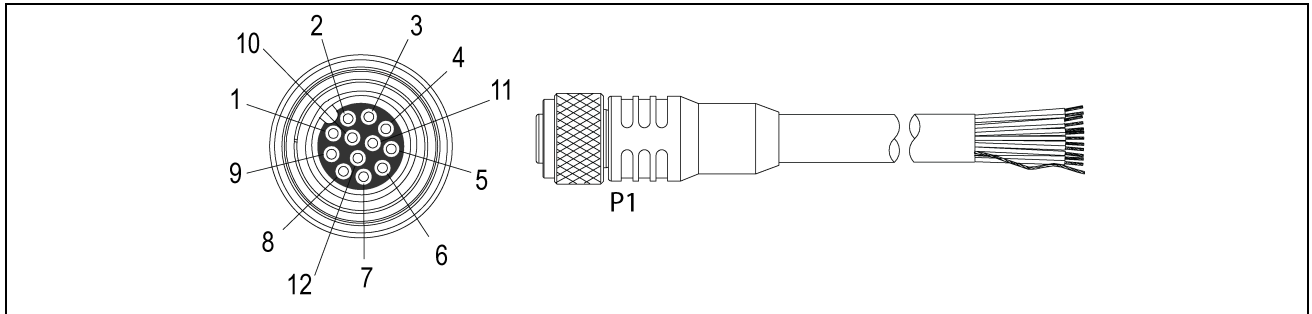
- Cables are sold separately.
- Perform wiring or adjustments to I/O devices when the vision system is not receiving power.
- You can cut exposed wires short or trim wire ends. You also can tie the wires back if you use a tie made of non-conductive material. Keep bare wires separated from the +24 V DC wire.



Power and I/O Breakout Cable (CCB-PWRIO-xx)

The Power and I/O Breakout cable provides access to trigger and high-speed outputs. For RS-232, use the Power Supply return path for ground.

The figure on the left shows the plug on the device.



Pin#	Signal Names	Wire Color
1	Out 2/In 2	Yellow
2	TxD	White/Yellow
3	RxD	Brown
4	Out 3/In 3	White/Brown
5	In 1	Violet
6	Common In	White/Violet
7	+24 VDC	Red
8	GND	Black
9	Common Out	Green
10	In 0	Orange
11	Out 0	Blue
12	Out 1	Grey

Note:


- Cables are sold separately.
- Perform wiring or adjustments to I/O devices when the vision system is not receiving power.
- You can cut exposed wires short or trim wire ends. You also can tie the wires back if you use a tie made of non-conductive material. Keep bare wires separated from the +24 V DC wire.



Cleaning and Maintenance

Clean the Housing

To clean the outside of the vision system housing, use a small amount of mild detergent cleaner or isopropyl alcohol on a cleaning cloth. Do not pour the cleaner on the vision system housing.

 **CAUTION:** Do not attempt to clean any VisionPro product with harsh or corrosive solvents, including lye, methyl ethyl ketone (MEK) or gasoline.


Clean the Vision System Image Sensor Window

To remove dust from the outside of the image sensor window, use a pressurized air duster. The air must be free of oil, moisture or other contaminants that could remain on the glass and possibly degrade the image. Do not touch the glass window. If oil or smudges remain, use a cotton bud and alcohol (ethyl, methyl, or isopropyl) to clean the window. Do not pour the alcohol on the window.



Clean the Vision System Lens Cover

To remove dust from the lens cover, use a pressurized air duster. The air must be free of oil, moisture or other contaminants that could remain on the lens cover. To clean the plastic window of the lens cover, use a small amount of isopropyl alcohol on a cleaning cloth. Do not scratch the plastic window. Do not pour the alcohol on the plastic window.

Regulations and Conformity

 **Note:** For the most current CE declaration and regulatory conformity information, see the Cognex support site: cognex.com/support.

The Trevista Controller has a Regulatory Model number 50240 and meets or exceeds the requirements of all applicable standards organizations for safe operation. As with any electrical equipment, however, the best way to ensure safe operation is to operate them according to the agency guidelines that follow. Please read these guidelines carefully before using your device.

Safety and Regulatory	
Manufacturer	Cognex Corporation One Vision Drive Natick, MA 01760 USA
	Trevista Controller: Regulatory Model 50240 This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take immediate measures. This equipment complies with the essential requirements of the EU Directive 2014/30/EU. Declarations are available from your local representative.
EU RoHS	Compliant to the most recent applicable directive.
FCC	FCC Part 15, Class A This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Korea 	Trevista Controller, KC ID : R-R-CGX-TREVISTA2004 This device is certified for office use only and if used at home, there can be frequency interference problems.
TÜV	Trevista Controller: Regulatory Model 50240
	NRTL: TÜV SÜD SCC/NRTL OSHA Scheme for UL/CAN 61010-1.
	CB report available upon request. TÜV SÜD, IEC/EN 61010-1.
UK	Trevista Controller: Regulatory Model 50240 This is a class A product. In a domestic environment, this product can cause radio interference, in which case the user is required to take adequate measures. This equipment complies with the essential requirements of the Electromagnetic Compatibility Regulations 2016. Declarations are available from your local representative.

中国大陆RoHS (Information for China RoHS Compliance)

根据中国大陆《电子信息产品污染控制管理办法》(也称为中国大陆RoHS), 以下部份列出了本产品中可能包含的有毒有害物质或元素的名称和含量。



Hazardous Substances 有害物质						
Part Name 部件名称	Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent Chromium (Cr (VI)) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴二苯醚
Regulatory Model 50240	X	O	O	O	O	O

This table is prepared in accordance with the provisions of SJ/T 11364.

这个标签是根据SJ/T 11364 的规定准备的。

O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB / T26572 - 2011.

表示本部件所有均质材料中含有的有害物质低于GB / T26572 - 2011 的限量要求。

X: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB / T26572 - 2011.

表示用于本部件的至少一种均质材料中所含的危害物质超过GB / T26572 - 2011 的限制要求。

For European Community Users

Cognex complies with Directive 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE).

This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment, if not properly disposed.

In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems for product disposal. Those systems will reuse or recycle most of the materials of the product you are disposing in a sound way.



The crossed out wheeled bin symbol informs you that the product should not be disposed of along with municipal waste and invites you to use the appropriate separate take-back systems for product disposal.

If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You may also contact your supplier for more information on the environmental performance of this product.

